

APPENDIX D

CRITICAL CONDITIONS

To determine whether an assessment unit is no longer impaired, samples must be collected during critical conditions and at critical locations. These conditions and locations were either noted in the TMDL investigations or are based on other factors, such as the fish consumption advisory action level. As TMDLs are completed, more waters will be added to this list.

ASSESSMENT UNIT DESCRIPTION REACH NUMBER	PARAMETERS	TMDL STATUS	CRITICAL CONDITIONS	CRITICAL SITES OR LOCATIONS (ADEQ site number)
Bill Williams Watershed				
Alamo Lake 15030204-0040	Mercury in fish	Ongoing	Methylmercury concentration in fish tissue <0.3 mg/kg	
Alamo Lake 15030204-0040	pH, ammonia	Scheduled	Determine if lake meets narrative nutrient criteria once narrative nutrient implement procedures are adopted.	
Boulder Creek From Wilder Creek to Copper Creek 15030202-005A	Copper, Zinc, Arsenic	Completed 2004	Stream flow less than 0.75 cfs, which is low flow, intermittent, or "base flow"	Below Hillside Mine - 101010 Above Hillside Mine - 102023
Coors Lake 15030204-5000	Mercury in fish	Scheduled	Methylmercury concentration in fish tissue <0.3 mg/kg	
Colorado - Grand Canyon Watershed				
Colorado - Lower Gila Watershed				
Painted Rocks Borrow Pit 15070201-1010	Dissolved oxygen	Scheduled	Determine if lake meets narrative nutrient criteria once narrative nutrient implement procedures are adopted.	
Little Colorado Watershed				
Bear Canyon Lake 15020008-0130	pH	Scheduled	Determine if lake meets narrative nutrient criteria once narrative nutrient implement procedures are adopted.	
Upper Lake Mary and Lower Lake Mary 15020015-0890 15020015-0900	Mercury in fish	Completed 2011	Methylmercury concentration in fish tissue <0.3 mg/kg	
Little Colorado River (near Nutrioso Creek) 15020001-009, -010	Turbidity	Completed 2002	Winter-spring runoff at approximately 29 cfs and summer runoff at approximately 13 cfs	Near USGS gage 09383400 - 101174
Long Lake 15020008-0820	Mercury in fish	Completed 2011	Methylmercury concentration in fish tissue <0.3 mg/kg	
Lyman Lake 15020001-0850	Mercury in fish	Completed 2011	Methylmercury concentration in fish tissue <0.3 mg/kg	
Nutrioso Creek From headwaters to Little Colorado River 15020001-017, -015	Turbidity	Completed 2000	Spring runoff at approximately 4 to 14 cfs	Big Wall site - 102112 Old background site - 101982
Rainbow Lake 15020005-1170	Nutrients (N&P) and pH	Completed 2000	Low lake level. Determine if lake meets narrative nutrient criteria once narrative nutrient implement procedures are adopted.	
Soldier's Annex Lake 15020008-1430	Mercury in fish	Completed 2011	Methylmercury concentration in fish tissue <0.3 mg/kg	
Soldier's Lake 15020008-1440	Mercury in fish	Completed 2011	Methylmercury concentration in fish tissue <0.3 mg/kg	

ASSESSMENT UNIT DESCRIPTION REACH NUMBER	PARAMETERS	TMDL STATUS	CRITICAL CONDITIONS	CRITICAL SITES OR LOCATIONS (ADEQ site number)
Middle Gila Watershed				
Alvord Park Lake 15060106B-0050	Ammonia	Scheduled	Determine if lake meets narrative nutrient criteria once narrative nutrient implement procedures are adopted.	
Chaparral Lake 15060106B-0300	Dissolved oxygen, <i>E. coli</i>	Scheduled	For the DO, meets narrative nutrient standards once new narrative nutrient implement procedures are adopted.	
Cortez Park Lake 15060106B-0410	Dissolved oxygen, pH	Scheduled	Determine if lake meets narrative nutrient criteria once narrative nutrient implement procedures are adopted.	
French Gulch From headwaters to Hassayampa River 15070103-239	Copper, cadmium, zinc	Completed 2005	Storm induced runoff	Below Zonia Mine - 101620
Hassayampa River From headwaters to Copper Creek 15070103-007A	Cadmium, copper, zinc	Completed 2002	Low flow and spring runoff (approximately 4 to 6 cfs)	Above McClellan Mine - 101816 Below McClellan Mine - 101817 Above Cash Mine trib - 101067 Below Cash Mine trib - 101065
Queen Creek From headwaters to Superior Mine discharge 15050100-014A, -014B	Copper	Ongoing		
Turkey Creek From headwaters to Poland Creek 15070102-036B	Cadmium, copper, zinc, lead	Completed 2005	Storm induced runoff, snow melt and base flow do not cause impairment	101627- Above Golden Belt and Turkey mines 101251- Below mines
Salt Watershed				
Canyon Lake 15060106A-0250	Dissolved oxygen	Scheduled	Determine if lake meets narrative nutrient criteria once narrative nutrient implement procedures are adopted.	
Christopher Creek and upper Tonto Creek 15060105-353, -013A, -013B	<i>E. coli</i>	Completed 2004	Summer season	
Christopher Creek and upper Tonto Creek 15060105-353, -013A, -013B	Nitrogen	Completed 2005	Summer season	
Crescent Lake 15060101-0420	pH	Scheduled	Determine if lake meets narrative nutrient criteria once narrative nutrient implement procedures are adopted.	
Pinto Creek From headwaters to Roosevelt Lake 15060103-018A, -018B, -018C	Copper	Completed 2001 Phase II ongoing	Storm induced runoff	
San Pedro Watershed				
Mule Gulch Headwaters to Whitewater Draw 15080301-090A, -090B, -090C	Cadmium, copper, zinc, pH	Ongoing	Storm induced runoff	
Santa Cruz Watershed				
3 R Canyon From headwaters to Sonoita Creek 15050301-558A, -558B, -558C	Cadmium, copper, zinc, pH	Completed 2003	Storm induced runoff	
Alum Gulch From headwaters to Sonoita Creek 15050301-561A, -561B	Cadmium, copper, zinc, pH	Completed 2003	Storm induced runoff	
Arivaca Lake 15050304-0080	Mercury in fish	Completed 1999	Methylmercury concentration in fish tissue <0.3 mg/kg	
Harshaw Creek From headwaters to Sonoita Creek 15050301-025	Copper, pH	Completed 2003	Storm induced runoff	

ASSESSMENT UNIT DESCRIPTION REACH NUMBER	PARAMETERS	TMDL STATUS	CRITICAL CONDITIONS	CRITICAL SITES OR LOCATIONS (ADEQ site number)
Lakeside Lake 15050302-0760	Nitrogen, phosphorus, chlorophyll, low DO, ammonia	Completed 2005	Nutrient levels in reclaimed water discharges	
Parker Canyon Lake 15050301-1040	Mercury in fish	Ongoing	Methylmercury concentration in fish tissue <0.3 mg/kg	
Pena Blanca Lake 15050301-1070	Mercury in fish	Completed 1999	Methylmercury concentration in fish tissue <0.3 mg/kg	
Rose Canyon Lake 15050302-1260	pH	Scheduled	Determine if lake meets narrative nutrient criteria once narrative nutrient implement procedures are adopted.	
Upper Gila Watershed				
Luna Lake 15040004-0840	Nutrients (N&P), pH, and dissolved oxygen	Completed 2000	Low lake levels. Determine if lake meets narrative nutrient criteria once narrative nutrient implement procedures are adopted.	
Verde Watershed				
Oak Creek Headwaters to Spring Creek	<i>E. coli</i>	Completed 2010	Summer recreational season, storm water runoff	Various sites throughout the watershed
Pecks Lake 15060202-1060	Nutrients (N&P), pH, dissolved oxygen	Completed 2002	Determine if lake meets narrative nutrient criteria once narrative nutrient implement procedures are adopted.	
Stoneman Lake 15060202-1490	Nutrients (N&P), pH, and dissolved oxygen	Completed 2000	Ephemeral lake. Do not assess if depth less than 1 meter. Determine if lake meets narrative nutrient criteria once narrative nutrient implement procedures are adopted.	
Verde River From Cottonwood Creek to Fossil Creek 15060202-025, -037, -015, -001 and 15060203-027, -025	Turbidity	Completed 2002	Storm induced runoff, approximately 1180 cfs.	USGS gage near Clarkdale 0950400 - 100738
Watson Lake 15060202-1590	Nitrogen, dissolved oxygen, pH	Ongoing	Determine if lake meets narrative nutrient criteria once narrative nutrient implement procedures are adopted.	